T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8

1st & PART BILL

M. A. R. 57 (Rule 116)

Measurement Book

No. B 426720

Serial No. Drains at sadiq Layout (Defence Layout) in W-06 ① Improvements to Road and

Name of Work and drains at manjunath Nagar, W-06 ③ Improvement drains & RCC culverts

at Hegde Nagar 9th cr to 13th cr in W-06 Byatarayanapura sub division

Name of Contractor or nature of Agency Sri. M. Venkatesh (Vijayapura Bangalore rural - 562135)

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Name of work :- package No-01 include 3 works of Rs 200.00 Lakhs ① Improvements to roads and drains at sadiq layout (Defence-Layout) in ward No-06 Byatarayanapura Sub division ② Improvements to roads and drains at manjunath nagara in ward No-6 in Byatarayanapura Sub division. ③ improvements of drains and Rcc culverts at Hegde nagara 9th cross to 13th cross in ward No-6 Byatarayanapura Sub division Work order :- BBMP/EE/BTP/WO/61/2018-19 Job code :- 006-18-000056, 006-18-000057, 006-18-000059,						

Estimate cost :- 200.00 Lakhs.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
ITEM NO.	DESCRIPTION				QTY	RATE/UNIT	AMOUNT.
01,	Earthwork excavation by manual means in ordinary Soil involving an average horizontal throw upto 2m and an avg lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work.				1752.09 cum	191.43	335403.16
02,	providing granite slabs of selected quality roughly dressed having a size of 7.5 cm thk and fixed in cement mortar (1:2) including fixing curing etc as per specifications and as per the direction of engineer in charge of the work				350.73 Sq.m	745.56	261490.26

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency ..
ate of commencement of work .....

Date	Full description, etc, of work
1	2
03,	Excavation for road bucket capacity inclu and side slopes in cross sections, and as per specification &
04	providing and Co with OPC Cement @ metal Coarse aggreg

T BOOK

nsions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
	QTY	RATE/UNIT	AMOUNT.
means in ordinary Soil			
throw upto 2m and an			
e Levelled and Sides neatley			
elled neatley after breaking			
cations. and as per the			
harge of the work			
	1752.09	191.43 cum	335403.16
quality roughly dressed having			
n Cement mortar (1:2) including			
ions and as per the direction			
work			
	350.73	745.56 Sq.m	261490.26

M. A. R. 57 (Rule 116)
Measurement Book

No. B 426721

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
03,	Excavation for road work in Soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes in accordance with requirements of lines grades and cross sections, and transporting to embankment. Location and complete as per Specification & as per the direction of Engineer in charge of the work						
						350.73 1592.10 745.56 148.69 cum	236729.93
04	providing and Laying in position plain Cement Concrete of mix 1:3:6 with OPC Cement @ 220 kgs, with 40mm and down size graded granite metal Coarse aggregate @ 0.892 cum & fine aggregate @ 0.465 cum						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	- Machine mixed, Concrete Laid in Layers not exceeding 15 cms, thk, well Compacted, in foundation including cost of all materials, Labour, HOM of machinery, curing Complete as per specifications, & as per direction of Engineer in charge of the work,						
					285.90	5990.60 Cum	1712703.55 1712713-
05,	Cement Concrete pavement. Construction of un-reinforced plain Cement concrete pavement, thickness as per design, over a prepared Sub base with OPC Cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal Coarse aggregate and fine aggregate, with Superplastisiser @ 3 Ltrs Conforming to IS 9103-1999						

erial No. .....
ame of Work .....
lame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work
1	2
	Reaffirmed - 2008, mixed capacity and appropri Laid in approved fix Concrete with Shovels, Vibrator and finished Contraction, Expansion, cutting Charges, Joint Sealant, admixtures a and grades as per d direction of Engineer

OOK

Depth 6	Contents 7	Reference to last Measurement 8
rs not exceeding 15 cms, uding cost of all curing complete as t Engineer in charge.		
285.90	5990.60 cum	1712703.55 1712713-
t cn- reinforced plain per design, over a prepared other type as per clause mm and down size graded fine aggregate, with IS 9103-1999		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 426722

erial No. .....
ame of Work ..... From..... To.....
lame of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Reaffirmed - 2008, mixed in a Concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, Laid in approved fixed side form work (steel channel, etc.) Spreading the Concrete with Shovels, rackers compacted using needle, Screed and plate Vibrator and finished in a continuous operation including provision of Contraction, Expansion, Construction & Longitudinal Joints including groove cutting charges, Joint filler, Separation membrane, Sealant primer, Joint Sealant, admixtures as approved, curing compound, finishing to Liner and grades as per drwg complete as per specifications, and as per the direction of Engineer in charge of the work.				351.12	6170.00 cum	~~2166404.23~~ 2166410-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
06,	Vaccum de-watering with Vaccum pump and Suction mat and compaction with Skin floater clubbed with floating disc including cost of generator, HOM of machinery, Shred Vibratory, power floater, blade and disc etc., with all lead and lift, and as per the direction of engineer in charge of ~~the~~ work.				2835.99	106.85 Sqm	303025.53
07,	providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base-coarse on well prepared surface and compacting with vibratory						

M. A
M

Serial No. .....
Name of Work ..... Fro
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
	roller to achive the desi as per the direction of	
09,	Cleaning the existing b brasher and finally dus air to recive bitumino labour, HOM of machino specification & as per dire	

T BOOK

sions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
pump and Suction mat and ed with floating disc including nory ; Shred Vibratory, power n all lead and left, and ar rge of ~~the~~ work.	2835.99	106.85 sqm	303025.53
nd Compacting graded stone Specification including premixing in mecanical mix plant tipper to site, Laying in Sub-base / base-coarse Compacting with Vibratory			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 426723

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
-	roller to achive the desired density, as per the direction of the Engineer -				Complete as per Specification and in-charge of work. 1283.30	1980.25 cum	2541255.18
09,	cleaning the existing blacktopped surface with brooms, ~~soft~~ brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machinery Complete as per Specification, and as per Specification & as per direction Engineer ~~in charge of the work~~.				20722.03	3.56 sqm.	73770.41

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10,	providing and applying ~~tack coat~~ using 80/100 grade bitumen (VG10) on prepared black topped surface at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour ~~tom~~ of machineries complete as per specification and as per the direction of Engineer in charge of the work.				21941.28	13.06 sqm	286553.05
11,	providing and laying bituminous concrete 40mm compacted thk with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder ~~at~~ 6% of mix and fillers, transporting the hot mix to work site, laying with a mechanical paver finisher to the						

M. A
M

erial No. .....
ame of Work ..... Fro
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
	required grade, ~~laid~~ an vibratory and tandem NORTH Specification and in charge of the work.	
12,	providing & laying of thk including reflectoris of 2-5mm it exclusive of the finished surface	

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
ocat using 80/100 grade topped surface at 2.5 kg boiler fitted with spray set including cost of all wer complete as per irection of Engineer in			
	21941.28	13.06 sqm	286553.05
ous Concrete 4 comm compacted ng 40-60 HMP using crushed ed with bituminous binder ansporting the hot mix to work paver finisher to the			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

426724

erial No. ..... From..... To.....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	required grade, level and alignment rolling with smooth wheeled vibratory and tandem rollers to achive the desired compaction as per MORTH Specification and as per the directions of the Engineer in charge of the work.				879.69	7934.05 cum	6979504 6979512.38
	(2) providing & laying of hot applied thermoplastic compound 2.5mm thk including reflectorising glass beads at 250 gms per sqm area; dft of 2.5mm is exclusive of surface the finished surface to be level, uniform and free from applied glass beads as per IRC 35						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measuremen
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Streaks and holes complete as per Specification and as per the directions of the Engineer in charge of work.				739.90	607.85 Sqm	449748.22
	C & FC						
	TOTAL AMOUNT :- 1,53,46595.91						

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

17/9/18

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Certificate :-
	(1) The Contractor
	(2) This bill am
	(3) The Contractor
	(4) No departmen

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ

BOOK

dth	Depth 6	Contents 7	Reference to last Measuremer 8
er		Specification and	
eer		in charge of work.	
	739.90	607.85	449748.22
		sqm	
		AMOUNT:- 1,53,46595.91	

M. A. R. 57 (Rule 116)
Measurement Book

No. B
426725

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Certificate:-						
	(1) The Contractor certified that the work done satisfactorily.						
	(2) This bill amount has not been claimed in previous bill.						
	(3) The Contractor all debrier removed from the work spot.						
	(4) NO departmental issues made to the Contractor.						

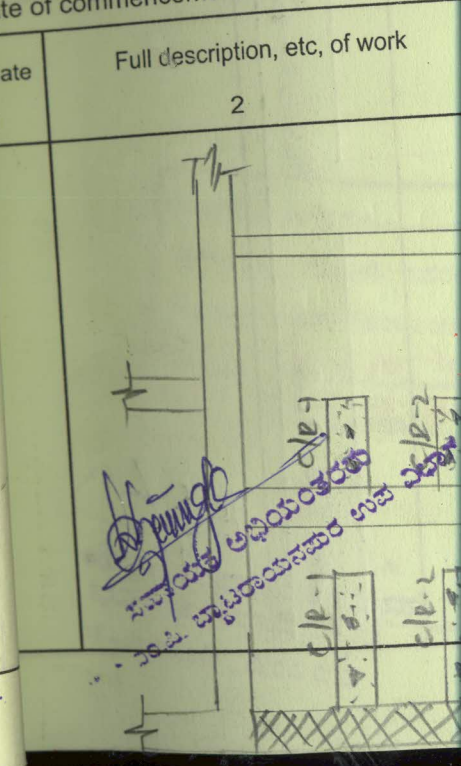
17/9/18
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

17/9/2018
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

HEGDE NAGAR

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
14th c/R	6th c/R						
13th c/R	5th c/R						
12th c/R	4th c/R						
11th c/R	3rd c/R						
10th c/R							
9th c/R							
8th c/R							
7th c/R							
	HEGDE NAGAR 1st MAIN ROAD					2nd c/R	
						1st c/R	
	HEGDE NAGAR 2nd MAIN ROAD						



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▨ = OVERLAY ASPHALT ROADS

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ-1
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

17/9/18

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ-1

SADIQ LAYOUT

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency ....
ate of commencement of work .....

Date	Full description, etc, of work
1	2

OOK

th	Depth 6	Contents 7	Reference to last Measuremen 8

M. A. R. 57 (Rule 116)
Measurement Book

No. B 426726

SADIQ LAYOUT

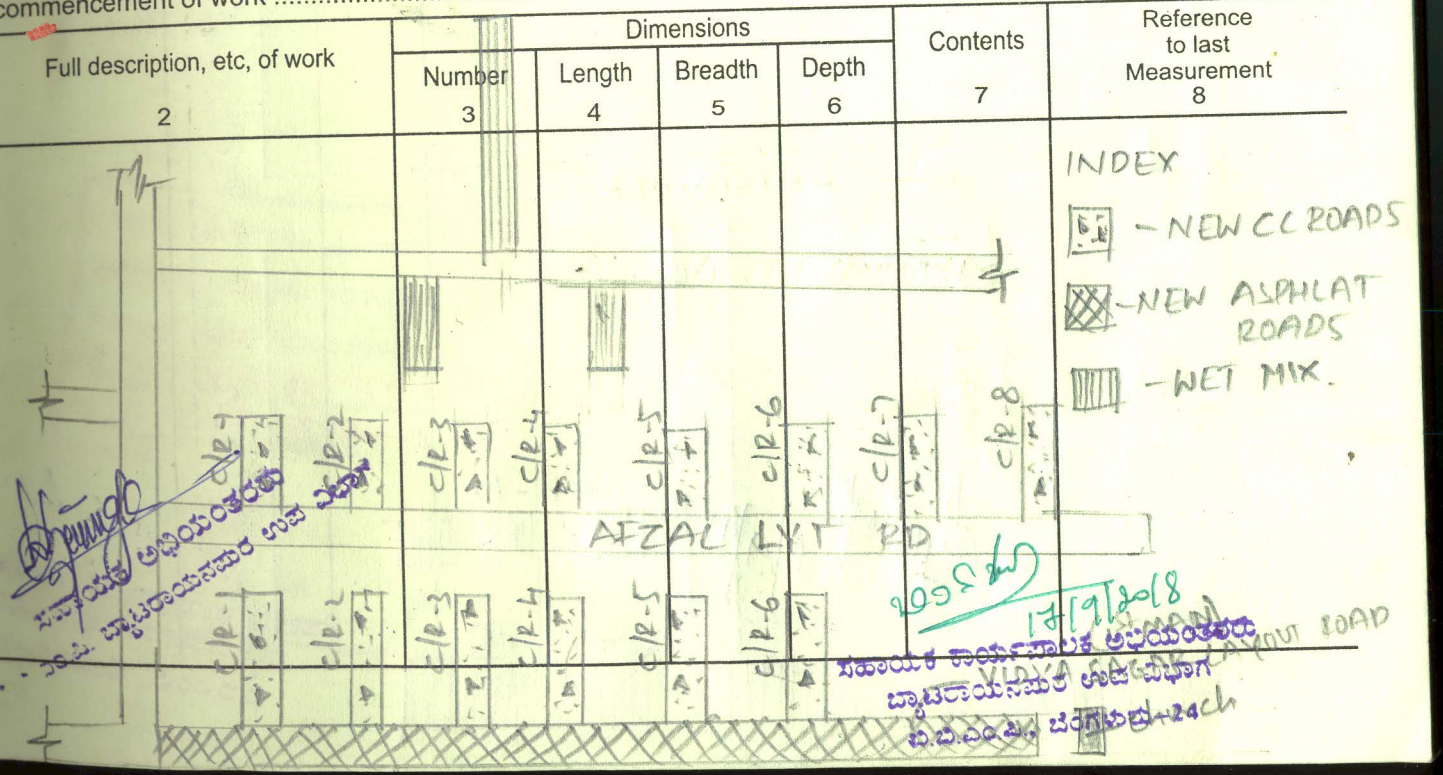
erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



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- NEW CC ROADS
- NEW ASPHLAT ROADS
- WET MIX.

MANJUNATH NAGAR.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						HENNUR →	
	TANISANDRA →						
	ELEMENT MALL					HEBBALA	